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*Sub E'*

N-{2-[1-(4-phenylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)-propionamide;  
N-{2-[1-(4-hydroxy-4-phenylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)-propionamide;  
N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(2-phenylethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)-acrylamide;  
N-[4-[1-(4-biphenylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(1-naphthylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(9-anthrylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(cyclohexylphenylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)-acrylamide;  
*2 cont*  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)acrylamide;  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-(4-{1-[bis(4-fluorophenyl)methyl]piperidin-4-yl}butyl)-3-(pyridin-3-yl)acrylamide;  
N-(4-{1-[bis(2-chlorophenyl)methyl]piperidin-4-yl}butyl)-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoro-pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(6-fluoro-pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide dihydrochloride;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide methanesulfonate;  
N-[4-(1-acetyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylacetyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-(9-oxo-9H-fluoren-4-carbonyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

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N-(4-{1-[bis(2-chlorophenyl)methyl]piperidin-4-yl}butyl)-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(phenylpyridin-3-ylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(9H-fluoren-9-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-  
propionamide;  
N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoropyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(5-fluoropyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-fluoro-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2,2-difluoro-3-(pyridin-3-yl)propionamide;  
*2 cont*  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)propionamide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)propionamide;  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)pentanoic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)pentanoic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-N-hydroxy-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-hydroxy-3-(pyridin-3-yl)propionamide;  
N-{4-(1-diphenylmethylpiperidin-4-yl)butyl}-3-hydroxy-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-  
acrylamide;  
N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-acetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylacetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

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N-{4-[1-(3,3-diphenylpropionyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-benzoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-benzoylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[1-(9-oxo-9H-fluoren-4-ylcarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(phenylpyridin-3-ylmethyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(phenylpyridin-4-ylmethyl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(6,11-dihydrodibenzo[b,e]thiepin-11-yl)piperidin-4-yl]-butyl}-3-(pyridin-3-yl)acrylamide;  
N-[7-(1-diphenylmethylpiperidin-4-yl)heptyl]-3-(pyridin-3-yl)acrylamide;  
N-[8-(1-diphenylmethylpiperidin-4-yl)octyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-diphenylmethylpiperidin-4-yl)oxypropyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-benzylpiperidin-4-yl)oxypropyl]-3-(pyridin-3-yl)acrylamide;  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[4-(4-diphenylmethylpiperazin-1-yl)-3-hydroxybutyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(4-diphenylmethylpiperazin-1-yl)propoxy]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylmethylpiperazin-1-yl)-4-oxobutyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(4-diphenylmethylpiperazin-1-yl)sulfonylpropyl]-3-(pyridin-3-yl)acrylamide;  
N-{2-[2-(4-diphenylmethylpiperazin-1-yl)ethoxy]ethyl}-3-(pyridin-3-yl)acrylamide;  
N-(4-{4-[bis(4-fluorophenyl)methyl]piperazin-1-yl}but-2-enyl)-3-(pyridin-3-yl)acrylamide;  
N-(4-{4-[(4-carboxyphenyl)phenylmethyl]piperazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;  
N-(4-{4-[(4-aminophenyl)phenylmethyl]piperazin-1-yl}butyl)-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(9H-fluoren-9-yl)piperazin-1-yl]butyl}-2-(pyridin-3-yl)oxyacetamide;  
N-{5-[4-(9H-fluoren-9-yl)piperazin-1-yl]pentyl}-3-(pyridin-3-yl)acrylamide;  
N-{6-[4-(9H-fluoren-9-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)acrylamide;  
3-(pyridin-3-yl)-N-{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;  
3-(pyridin-3-yl)-N-{4-[4-(5,6,7,8-tetrahydronaphthalen-1-yl)piperazin-1-yl]butyl}acrylamide;  
N-{4-[4-(naphthalen-1-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[5-(4-biphenyl-2-ylpiperazin-1-yl)pentyl]-3-(pyridin-3-yl)acrylamide;

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*butyl*  
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N-[6-(4-biphenyl-2-yl)piperazin-1-yl]hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-yl)piperazin-1-yl]butyl]-2-(pyridin-3-yloxy)acetamide;  
N-[4-(4-biphenyl-2-yl)piperazin-1-yl]butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;  
N-{5-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]pentyl}-3-(pyridin-3-yl)-acrylamide;  
N-{6-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)-acrylamide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic amide;  
N-{4-[4-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{2-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yl)piperazin-1-yl]ethyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylacetyl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
*10<sup>2</sup> cont*  
N-[4-(4-benzoylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(2-aminobenzoyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(4-carboxybenzoyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(biphenyl-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(9-oxo-9H-fluoren-4-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(furan-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(naphthalen-1-ylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[4-(diphenylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(naphthalen-2-sulfonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylphosphinonyl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-yl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(9H-fluoren-9-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;  
N-[4-(4-phenylpiperidin-1-yl)-butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(1H-indol-3-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(2-oxo-2,3-dihydrobenzimidazol-1-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-benzotriazol-1-yl)piperidin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;

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N-{4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl}-2-(pyridin-3-yloxy)acetamide;  
N-[4-(4,4-diphenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)propionamide  
dihydrochloride semi-isopropanol;  
N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]butyl}-5-(pyridin-3-yl)pentanamide;  
N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-  
propionamide;  
N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-  
acrylamide;  
N-[4-(4-diphenylphosphinoyloxypiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(2,6-dioxo-4-phenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
*2 cont*  
N-[4-(1,3-dioxo-4,5,6,7-tetraphenyl-1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(3-benzyl-2,4,5-trioxoimidazolidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1,3,10-trioxo-1,4,5,6,10,10a-hexahydroacnaphtho[1,8a-c]pyrrol-2-yl)butyl]-3-(pyridin-3-yl)-  
acrylamide;  
N-[4-(2,5-dioxo-4,4-diphenylimidazolidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(2,5-dioxo-3-phenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)propyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(3-pyridin-3-ylacryloylamino)butyl]-2,3,5,6-dibenzobicyclo[2.2.2]octan-7,8-dicarboximide;  
N-[4-(5-benzyliden-2,4-dioxothiazolidin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-benzyl-2,6-dioxopiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1,3-dioxo-1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(1-oxopyridin-3-yl)acrylamide;  
N-[6-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[2-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)ethyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[8,8-bis(4-fluorophenyl)octyl]-3-(pyridin-3-yl)acrylamide hydrochloride;  
N-[6-(3,3-diphenylureido)hexyl]-3-(pyridin-3-yl)acrylamide;

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N-[4-(1-phenyl-1,2,4,5-tetrahydrobenzo[d]azepin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-(8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;  
N-(8-hydroxy-8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;  
N-[4-(3,3-diphenylureido)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-(10,11-dihydrodibenzo[b,f]azepin-5-ylcarbonylamino)hexyl]-3-(pyridin-3-yl)acrylamide;  
3-(pyridin-3-yl)-N-[6-tosylaminoheptyl]acrylamide;  
N-[4-(1,1-dioxo-1-thia-2-azaacenaphthylene-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-(6-hydroxy-6,6-diphenylhexyl)-3-(pyridin-3-yl)acrylamide;  
N-(6,6-diphenylhex-5-enyl)-3-(pyridin-3-yl)acrylamide;  
N-[4-(4,5-diphenylimidazol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(trans-2-phenylcyclopropylcarbonylamino)butyl]-3-(pyridin-3-yl)acrylamide;  
N-(5-hydroxy-5,5-diphenylpentyl)-3-(pyridin-3-yl)acrylamide;  
N-(7-phenylheptyl)-3-(pyridin-3-yl)acrylamide;  
N-(4-diphenylacetylaminobutyl)-3-(pyridin-3-yl)acrylamide;  
N-[4-(benzhydrylamino)butyl]-3-(pyridin-3-yl)acrylamide; and  
N-[4-{2-(benzhydrylmethylamino)ethyl}methylamino]butyl]-3-(pyridin-3-yl)acrylamide.

40.(Amended) The method of claim 50 comprising the additional administration of a further cancerostatic or immunosuppressive agent that is not a compound of formula Ia.

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42.(Amended) The composition of claim 52 comprising a further cancerostatic or immunosuppressive agent that is not a compound of formula Ia.

43.(Amended) The composition of claim 52 where the compound(s) of formula Ia and the compound(s) of formula II - Vb are contained separately within the composition.

44.(Amended) The composition of claim 52 where the compound(s) of formula Ia and the compound(s) of formula II - Vb are present in separate dosage forms, and the dosage forms are packaged together for co-administration.

45. (Amended) The composition of claim 52 where:

*sch 91*  
R<sup>21</sup> is selected from the group consisting of hydrogen, halogen, cyano, C<sub>1-6</sub> alkyl, trifluoromethyl, C<sub>1-6</sub> hydroxyalkyl, hydroxy, C<sub>1-6</sub> alkoxy, C<sub>2-7</sub> alkanoyloxy, C<sub>1-6</sub> alkylthio, C<sub>1-6</sub> aminoalkyl, amino, C<sub>1-6</sub> alkylamino, di(C<sub>1-6</sub> alkyl)amino, formyl, alkoxycarbonyl, aminocarbonyl, (C<sub>1-6</sub> alkyl)aminocarbonyl, di(C<sub>1-6</sub> alkyl)aminocarbonyl, and carboxy;

R<sup>22</sup> is selected from the group consisting of hydrogen, halogen, C<sub>1-6</sub> alkyl, trifluoromethyl, C<sub>1-6</sub> hydroxyalkyl, hydroxy, alkoxy, C<sub>2-7</sub> alkanoyloxy, C<sub>1-6</sub> aminoalkyl, amino, (C<sub>1-6</sub> alkoxy)carbonyl, aminocarbonyl, and carboxy;

*3 cont*  
R<sup>23</sup> is selected from the group consisting of hydrogen, C<sub>1-6</sub> alkyl, and C<sub>1-6</sub> hydroxyalkyl;

R<sup>24</sup> is selected from the group consisting of C<sub>1-6</sub> alkyl, C<sub>3-6</sub> alkenyl, C<sub>2-6</sub> hydroxyalkyl, C<sub>2-6</sub> alkoxyalkyl, and benzyl;

R<sup>26</sup> is selected from the group consisting of hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> hydroxyalkyl, C<sub>3-6</sub> alkoxyalkyl, C<sub>1-6</sub> aminoalkyl, C<sub>4-12</sub> dialkylaminoalkyl, and carboxymethyl;

when b is 1, R<sup>27</sup> is selected from the group consisting of hydrogen, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> hydroxyalkyl, C<sub>3-6</sub> alkoxyalkyl, C<sub>1-6</sub> aminoalkyl, C<sub>4-12</sub> dialkylaminoalkyl, and carboxymethyl;

when b is 2, R<sup>27</sup> is C<sub>2-10</sub> alkylene in which a methylene group is optionally replaced by O, NH, or N-alkyl.

46. (Amended) The composition of claim 52 where the compound having vitamin PP activity or a prodrug thereof is selected from the group consisting of nicotinic acid, nicotinamide, and their pharmaceutically acceptable ester and amide derivatives, anionic, quaternary, and addition salts, N-oxides, and analogous thioxo derivatives, their isomers, and prodrugs thereof.

*sch 91*  
48. (Amended) The composition of claim 51 where the compound having vitamin PP activity or a prodrug thereof is tryptophan.

*dt*  
49. (Amended) The composition of claim 52 where the compound(s) of formula Ia are selected from the group consisting of

N-[2-(1-benzylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)propionamide;

N-{2-[1-(2-phenylethyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;

N-{2-[1-(4-phenylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;

N-{2-[1-(4-hydroxy-4-phenylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)propionamide;

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N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)propionamide;  
N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(2-phenylethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(4-biphenylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(1-naphthylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(9-anthrylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(cyclohexylphenylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)-acrylamide;  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl)acrylamide;  
*Not cont*  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[4-[1-[bis(4-fluorophenyl)methyl]piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-[bis(2-chlorophenyl)methyl]piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoro-pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(6-fluoro-pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide dihydrochloride;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide methanesulfonate;  
N-[4-(1-acetyl-piperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylacetyl-piperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-(9-oxo-9H-fluoren-4-carbonyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-[bis(2-chlorophenyl)methyl]piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-[1-(phenylpyridin-3-ylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)propionamide;



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N-{4-[1-(9H-fluoren-9-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-  
propionamide;  
N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoropyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(5-fluoropyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-fluoro-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2,2-difluoro-3-(pyridin-3-yl)propionamide;  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)propionamide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)propionamide;  
*104 cont*  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)pentanoic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)pentanoic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-N-hydroxy-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-2-hydroxy-3-(pyridin-3-yl)propionamide;  
N-{4-(1-diphenylmethylpiperidin-4-yl)butyl}-3-hydroxy-3-(pyridin-3-yl)propionamide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-  
acrylamide;  
N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-acetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-diphenylacetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[1-(3,3-diphenylpropionyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(1-benzoylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

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*Sub E1*

N-[4-(1-benzoylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[4-[1-(9-oxo-9H-fluoren-4-ylcarbonyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(phenylpyridin-3-ylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(phenylpyridin-4-ylmethyl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(6,11-dihydrodibenzo[b,c]oxepin-11-yl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[1-(6,11-dihydrodibenzo[b,e]thiepin-11-yl)piperidin-4-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[7-(1-diphenylmethylpiperidin-4-yl)heptyl]-3-(pyridin-3-yl)acrylamide;  
N-[8-(1-diphenylmethylpiperidin-4-yl)octyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-diphenylmethylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(1-benzylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)acrylamide;  
N-[2-(1-diphenylmethylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[5-(1-diphenylmethylpiperidin-4-yl)pentyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-[6-(1-diphenylmethylpiperidin-4-yl)hexyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
*Dt cont*  
N-[4-(4-diphenylmethylpiperazin-1-yl)-3-hydroxybutyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(4-diphenylmethylpiperazin-1-yl)propoxy]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylmethylpiperazin-1-yl)-4-oxobutyl]-3-(pyridin-3-yl)acrylamide;  
N-[3-(4-diphenylmethylpiperazin-1-sulfonyl)propyl]-3-(pyridin-3-yl)acrylamide;  
N-[2-[2-(4-diphenylmethylpiperazin-1-yl)ethoxy]ethyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-{4-[bis(4-fluorophenyl)methyl]piperazin-1-yl}but-2-enyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-{4-[(4-carboxyphenyl)phenylmethyl]piperazin-1-yl}butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-{4-[(4-aminophenyl)phenylmethyl]piperazin-1-yl}butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-[4-(9H-fluoren-9-yl)piperazin-1-yl]butyl]-2-(pyridin-3-yloxy)acetamide;  
N-[5-[4-(9H-fluoren-9-yl)piperazin-1-yl]pentyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-[4-(9H-fluoren-9-yl)piperazin-1-yl]hexyl]-3-(pyridin-3-yl)acrylamide;  
3-(pyridin-3-yl)-N-[4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)piperazin-1-yl]butyl]acrylamide;  
3-(pyridin-3-yl)-N-[4-[4-(5,6,7,8-tetrahydronaphthalen-1-yl)piperazin-1-yl]butyl]acrylamide;  
N-[4-[4-(naphthalen-1-yl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)propionamide;  
N-[5-(4-biphenyl-2-ylpiperazin-1-yl)pentyl]-3-(pyridin-3-yl)acrylamide;  
N-[6-(4-biphenyl-2-ylpiperazin-1-yl)hexyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-2-(pyridin-3-yloxy)acetamide;

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*Sub E1*

N-[4-(4-biphenyl-2-yl)piperazin-1-yl]butyl]-5-(pyridin-3-yl)-2,4-pentadienic acid amide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;  
N-{5-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]pentyl}-3-(pyridin-3-yl)-acrylamide;  
N-{6-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]hexyl}-3-(pyridin-3-yl)-acrylamide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic amide;  
N-{4-[4-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{2-[4-(6,11-dihydrodibenzo[b,e]diazepin-11-yl)piperazin-1-yl]ethyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylacetyl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-benzoylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(2-aminobenzoyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(4-carboxybenzoyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
*D4 cont*  
N-{4-[4-(biphenyl-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(9-oxo-9H-fluoren-4-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(furan-2-carbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(naphthalen-1-ylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)propionamide;  
N-{4-[4-(diphenylaminocarbonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(naphthalen-2-sulfonyl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-diphenylphosphinonylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-biphenyl-2-yl)piperazin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(9H-fluoren-9-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;  
N-[4-(4-phenylpiperidin-1-yl)-butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(1H-indol-3-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(2-oxo-2,3-dihydrobenzimidazol-1-yl)piperidin-1-yl]butyl}-3-(pyridin-3-yl)acrylamide;  
N-[4-(4-benzotriazol-1-yl)piperidin-1-yl]butyl]-3-(pyridin-3-yl)acrylamide;  
N-{4-[4-(hydroxydiphenylmethyl)piperidin-1-yl]butyl}-2-(pyridin-3-yloxy)acetamide;  
N-[4-(4,4-diphenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

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*Sub 61*  
N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)propionamide dihydrochloride semi-isopropanol;

N-{4-[4-(6,11-dihydrodibenzo[b,e]thiepin-11-yliden)piperidin-1-yl]butyl}-5-(pyridin-3-yl)pentanamide;

N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-propionamide;

N-{4-[4-(4,9-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)piperidin-1-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-[4-(4-diphenylphosphinoyloxypiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,6-dioxo-4-phenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-4,5,6,7-tetraphenyl-1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-benzyl-2,4,5-trioxoimidazolidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

*Def cont*  
N-[4-(1,3,10-trioxo-1,4,5,6,10,10a-hexahydroacenaphtho[1,8a-c]pyrrol-2-yl)butyl]-3-(pyridin-3-yl)-acrylamide;

N-[4-(2,5-dioxo-4,4-diphenylimidazolidin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3-phenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[3-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)propyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(3-pyridin-3-ylacryloylamino)butyl]-2,3,5,6-dibenzobicyclo[2.2.2]octan-7,8-dicarboximide;

N-[4-(5-benzyliden-2,4-dioxothiazolidin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(4-benzyl-2,6-dioxopiperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[6-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1,3-dioxo-1,3-dihydroisoindol-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(1-oxopyridin-3-yl)acrylamide;

N-[6-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[2-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)ethyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-[8,8-bis(4-fluorophenyl)octyl]-3-(pyridin-3-yl)acrylamide hydrochloride;

N-[6-(3,3-diphenylureido)hexyl]-3-(pyridin-3-yl)acrylamide;

N-[4-(1-phenyl-1,2,4,5-tetrahydrobenzo[d]azepin-3-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-(8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;

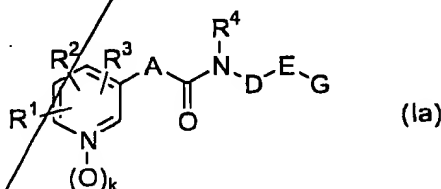
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~~N-(8-hydroxy-8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;  
 N-[4-(3,3-diphenylureido)butyl]-3-(pyridin-3-yl)acrylamide;  
 N-[4-(1H,3H-benzo[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
 N-[6-(10,11-dihydrodibenzo[b,f]azepin-5-ylcarbonylamino)hexyl]-3-(pyridin-3-yl)acrylamide;  
 3-(pyridin-3-yl)-N-[6-tosylaminohexyl]acrylamide;  
 N-[4-(1,1-dioxo-1-thia-2-azaacenaphthylen-2-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
 N-(6-hydroxy-6,6-diphenylhexyl)-3-(pyridin-3-yl)acrylamide;  
 N-(6,6-diphenylhex-5-enyl)-3-(pyridin-3-yl)acrylamide;  
 N-[4-(4,5-diphenylimidazol-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;  
 N-[4-(trans-2-phenylcyclopropylcarbonylamino)butyl]-3-(pyridin-3-yl)acrylamide;  
 N-(5-hydroxy-5,5-diphenylpentyl)-3-(pyridin-3-yl)acrylamide;  
 N-(7-phenylheptyl)-3-(pyridin-3-yl)acrylamide;  
 N-(4-diphenylacetylaminobutyl)-3-(pyridin-3-yl)acrylamide;  
 N-[4-(benzhydrylamino)butyl]-3-(pyridin-3-yl)acrylamide; and  
 N-(4-{[2-(benzhydrylmethylamino)ethyl]methylamino}butyl)-3-(pyridin-3-yl)acrylamide.~~

Add claims 50 - 52 to read as follows:

50. The method of claim 38 where the cancerostatic or immunosuppressive agent is selected from the group consisting of compounds of formula Ia:



where:

R<sup>1</sup> is selected from the group consisting of hydrogen, fluorine, methyl, trifluoromethyl, and hydroxy;

R<sup>2</sup> and R<sup>3</sup> are each hydrogen;

R<sup>4</sup> is hydrogen or hydroxy;

A is selected from the group consisting of ethylene, propylene, or butylene, each optionally substituted with hydroxy or one or two fluorine atoms, -OCH<sub>2</sub>-, -SCH<sub>2</sub>-, ethenylene, vinylene, and butadienylene;

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D is selected from the group consisting of C<sub>2</sub> - C<sub>6</sub> alkylene and C<sub>2</sub> - C<sub>6</sub> alkenylene, where the double bond may also join D and E;

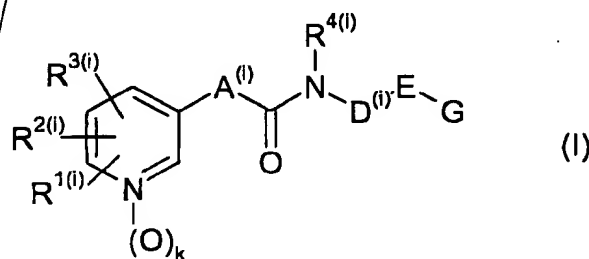
E is selected from the group consisting of pyrrolidine, piperidine, hexahydroazepine, and morpholine; and

*105 Cont*

G is selected from the group consisting of benzyl, phenethyl, fluorenylmethyl, anthrylmethyl, diphenylmethyl, fluorenyl, dihydrodibenzocycloheptenyl, furylmethyl, thienylmethyl, thiazolylmethyl, pyridylmethyl, benzothienylmethyl, quinolylmethyl, phenylthienylmethyl, phenylpyridylmethyl, dihydrodibenzoxepinyl, dihydrodibenzothiepinyl, acetyl, pivaloyl, phenylacetyl, diphenylacetyl, diphenylpropionyl, naphthylacetyl, benzoyl, naphthoyl, anthrylcarbonyl, oxofluorenylcarbonyl, oxodihydroanthrylcarbonyl, dioxodihydroanthrylcarbonyl, furoyl, pyridylcarbonyl, chromonylcarbonyl, quinolylcarbonyl, naphthylaminocarbonyl, dibenzylaminocarbonyl, benzylphenylaminocarbonyl, diphenylaminocarbonyl, indolin-1-ylcarbonyl, dihydrodibenzazepinyl-N-carbonyl, tetrahydroquinolinyl-N-carbonyl, tetrahydrobenzazepinyl-N-carbonyl, methanesulfonyl, benzenesulfonyl, p-toluenesulfonyl, naphthalenesulfonyl, quinolinesulfonyl, and diphenylphosphinoyl, where the or each aromatic ring system may be independently substituted with one to three substituents selected independently from the group consisting of halogen, cyano, C<sub>1</sub> - C<sub>6</sub> alkyl, trifluoromethyl, C<sub>3</sub> - C<sub>8</sub> cycloalkyl, phenyl, benzyl, hydroxy, C<sub>1</sub> - C<sub>6</sub> alkoxy (optionally partially or completely fluorinated), benzyloxy, phenoxy, mercapto, C<sub>1</sub> - C<sub>6</sub> alkylthio, carboxy, C<sub>1</sub> - C<sub>6</sub> alkoxycarbonyl, benzyloxycarbonyl, nitro, amino, C<sub>1</sub> - C<sub>6</sub> alkylamino, and di(C<sub>1</sub> - C<sub>6</sub> alkyl)amino, or two adjacent substituents together form methylenedioxy.

51. A pharmaceutical composition comprising:

(a) at least one compound selected from the group consisting of compounds of formula I:



where:

each of R<sup>1(i)</sup>, R<sup>2(i)</sup>, R<sup>3(i)</sup>, and R<sup>4(i)</sup> are independently selected from the group consisting of hydrogen, halogen, hydroxy, trifluoromethyl, cyano, aliphatic hydrocarbyl residue optionally substituted with one or more functional groups and optionally interrupted by one or more heteroatoms, and aromatic hydrocarbyl residue; or R<sup>1(i)</sup> and R<sup>2(i)</sup> together form a bridge;

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Sub E1)

k is 0 or 1;

A<sup>(0)</sup> and D<sup>(0)</sup> are independently a saturated or unsaturated optionally substituted aliphatic hydrocarbyl residue, optionally interrupted by a heteroatom or a functional group;

E is a bond or is a heterocyclic residue having one or two ring nitrogen atoms or one ring nitrogen atom and one ring oxygen atom, linked to D<sup>(0)</sup> and G through a ring nitrogen atom and a ring carbon atom or through two ring nitrogen atoms, and

G is selected from the group consisting of hydrogen, an aliphatic or araliphatic residue, an unsaturated or aromatic monocyclic or polycyclic carbocyclic residue, a saturated, unsaturated, or aromatic monocyclic or polycyclic heterocyclic residue, bonded directly or through a functional group derived from a carbon, nitrogen, oxygen, sulfur, or phosphorus atom,

and the stereoisomers or racemic or non-racemic mixtures of stereoisomers thereof,

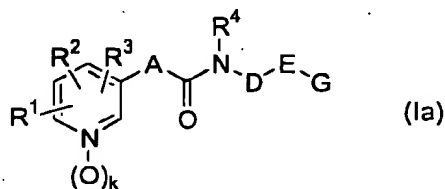
and the tautomers thereof when G is a heterocyclic aromatic ring or an aromatic ring substituted by a hydroxy, mercapto, or amino group,

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and the pharmacologically acceptable acid addition salts thereof;

- (b) a compound having vitamin PP activity or a prodrug thereof; and
- (c) at least one physiologically acceptable carrier.

52. The composition of claim 41 where the compound(s) of formula I are selected from the group consisting of compounds of formula Ia:



where:

R<sup>1</sup> is selected from the group consisting of hydrogen, fluorine, methyl, trifluoromethyl, and hydroxy;

R<sup>2</sup> and R<sup>3</sup> are each hydrogen;

R<sup>4</sup> is hydrogen or hydroxy;

A is selected from the group consisting of ethylene, propylene, or butylene, each optionally substituted with hydroxy or one or two fluorine atoms, -OCH<sub>2</sub>-, -SCH<sub>2</sub>-, ethenylene, vinylene, and butadienylene;